

Please add the Abstract section provided below to the specification:

ABSTRACT OF THE DISCLOSURE

The invention relates to a rapid arc welding system (10) for welding elements (12) onto components (14). The inventive system comprises a welding head (16), a supply device (24) for supplying elements (12) to the component (14) and a control and power device (20). Said control and power device comprises a safety circuit for controlling the safety functions of the welding system (10) which allows an operation that is especially safeguarded from unauthorized use of the system in which an operation disruption is partially cancelled. In this partial operation mode, individual components of the system (10) can be activated selectively, especially for the purpose of maintenance.